REVISED 5-7-87

MEA NO. N 7.54 RITICALITY 2/2		SHUTTLE CCTV CRETICAL ITEMS LIST	DNG NO. 2293290-501, 502 155UED 10-14-86 SHEET 1 OF 5
TATUURE MUDE AND	FAILURE EFFECT ON END ITEM	RATIONALE FOR ACCEPTA	ICE
of TVC HTR RTM (wrist)	No video from wrist camera if TVC gets too cold.  Harst Case: Loss of mission critical video.	The M7 RYS/RMS cable is a 20-inch long assembly, 35- terminated on each end with a 37-pin connector [P]. wires are shielded #24 Twinax twisted-pair wires. I commands from the RVS to the RMS wrist or elbow came to the RVS.  The cable design is taken from the successfully floo cable-connector assembly in which the wire terminate flexture at the joint between the wire and the connector connector is moved away from the conductor connector he length of the conductors encapsulated in a pote also protects the assembly from dirt and entrapped of in space.  The cable and its components meet the applicable ref specifications. These requirements include:  • General/Mechanical/Electrical Features • Design and Construction • Materials • Terminal Solderability • Environmental • Qualification • Marking and Serialization • Traceability and Occumentation	na wy capte provides pour and ra stack and returns video signals on Apollo program. The design is a one are protected from excessive ctor terminal. The load ction and distributed axially along d-taper profile. This technique of sture which could cause problems
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FMEA NO. W 7.54  CRITICALITY 2/2	<del>_</del>	SHUFFLE COFF CRITICAL ITEMS LEST	DING NO. 2293290-501, 502 TSSUED 10-14-86 SHEET 3 OF 5
			3 01 <u>3</u>
CAUSE	FAILURE EFFECT ON END ITEM	RATIONALE FOR ACCEPTANCE	
		Procurement Control - Wire, connectors, solder, etc. are and suppliers which meet the requirements set forth in Plan Work Statement (MS-2593176).  Incoming Inspection & Storage - Encoming Quality Inspect materials and parts. Hesults are recorded by lot and recontrol numbers for future reference and traceability. Material Controlled Stores and retained under specified fabrication is required. Non-conforming materials are I (MR8) disposition. (PAI-307, PAI IQC-53).  Assembly & Test - Prior to the start of assembly, all if by stock room personnel as the items are accumulated to vorified again by the operator who assembles the kit by as-built-parts-list (ABPL).  Specific instructions are given in assembly drawing not called out in the Fabrication Procedure and Record (FPR-Process Standard crimping flight connector contacts, 22 splicing of standard interconnecting wire using Raychem Process Standard marking of parts or assembles with epr material and test procedure (IP-AI-2293290). Quality and at the completion of key operations.  Preparation for Shipment - When fabrication and test is packaged according to 2200746, Process Standard for Packall related documentation including assembly drawings, it is gathered and held in a documentation folder assigned assembly. This folder is retained for reference.	tions are made on all received etained in file by drawing and Accepted items are delivered to conditions until cable held for Material Review Board tems are verified to be correct form a kit. The items are checking against the essand applicable documents -2293290). These are 2280800 -80801 - Process Standard in-line soider sleeves, 2280876 - buy colors, 2280876. Potting and BCAS Inspections are performed complete, the cable assembly is kaging and Handling Guidelines. Parts List, ABPL, Test Data, etc.
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FMEA NO. W 7.54  CRITICALITY 2/2		SHUTTLE CCTV CRITICAL ITEMS LIST	UNIT Cable DNG NOT 2293290-501, 502 [SSUED 10-14-86 SHEET 4 OF 5	
FATEURE MODE AND CAUSE	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE		
TATEURE MODE AND CAUSE ss of TVC HTR RTN (wrist) en	FAILURE EFFECT ON END ITEM  No video from wrist camera if TVC gets too cold.  Morst Case:  Loss of mission critical video.	RATIONALE FOR ACCEPTANC  FAILURE HISTORY  There have been no reported failures during RCA testin	DNG NO. 7293290-501, 502 [SSUED 10-14-86 SHEET 4 OF 5	

REVISED 5-7-87

FMEA NO. N 7.54  CRITICALITY 2/2		SHUTTLE CCTY CRITICAL ETEMS LIST	ONIT CAB IS ONG NO. 2293290-501, 502 ESSUED TO-14-86 SHEET 5 OF 5	
FATLURE MODE AND CAUSE	FAILURE EFFECT ON END ITEM	RATIONALE FOR ACCEPTANCE		
s of TVC HTR RTN (wrist)	No video from wrist camera if TVC gets top cold.  Worst Case: Loss of mission critical video.	OPERATIONAL EFFECTS  Loss of video. Possible loss of major mission objects other required cameras.  CREM ACTIONS  If possible, continue RMS operations using alternate video in the continue RM	ves due to loss of RMS cameras or isual cues.	
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